Bangalore Electricity Supply Company Limited

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No. BESCOM/GM(ICT&MIS)/DGM-IT2/AGM-IT5/2025-26/

CORRIGENDUM/CLARIFICATIONS

Sub: Issue of Corrigendum/Clarification to the tender: "Supply, install, configure, commission & maintenance of backup storage appliance with all required software license & accessories along with backup software at Data Centre for all ESCOMs of Karnataka"

Ref: 1. Tender Enquiry No. BESCOM/2025-26/OW/WORK_INDENT642 dated 19.11.2025
2. Pre-Bid Meeting held on 25.11.2025 at Chamber of GM-IT, BESCOM.

A. CORRIGENDUM

Subsequent to the queries raised by the prospective bidders on the referred RFP, the Corrigendum/Clarifications are as below:

Sl. no.	Section no./ Clause no./ Page no.	As Existing Description/ Subject	As Amended Description/ Subject
1	Clause 5.2.2 point 1/ page 41	Proposed Integrated purpose-built backup appliance (PBBA) must be Zero Trust security and **containerized micro service based** architecture for agility, faster deployment and optimization steady state resource usage. PBBA should be fully integrated PBBA and not a reference architecture	Proposed Integrated purpose-built backup appliance (PBBA) must have Zero Trust security architecture for agility, faster deployment and optimization steady state resource usage. PBBA should be fully integrated PBBA **or reference architecture**.
2	Clause 5.2.2 point 2/ page 42	4) The storage system must be configured in RAID 6 configuration.	4) The storage system must be configured in RAID 6 **or equivalent configuration**
3	Clause 5.2.2 point 2/ page 42	The All NL-SAS array system or above must support a maximum of 4TB/6TB/8TB per disk. Sufficient No of Cold/Hot Spare Disc to be provided.	The All NL-SAS array system or above must support a maximum of 4TB/6TB/8TB/**12TB/ / 14TB /16TB /18TB /20TB** per disk. Sufficient No of Cold/Hot Spare Disc to be provided.
4	Clause 5.2.2	The storage should support OST, FC,	The storage should support **FC/iSCSI/NFS/SMB/CIFS/NDMP,**

	point 4/ page 42	iSCSI, NFS, SMB, CIFS, NDMP, SNMP, LDAP and AD protocols for various backup requirement as per the proposed solution.	**SNMP, LDAP/AD** protocols for various backup requirement as per the proposed solution.
5	Clause 5.2.2 point 5/ page 42	Should support RAID 6 or Equivalent along with hot spare disks	Should support RAID 6 or Equivalent along with hot**/cold spare disks**
6	Clause 5.2.2 point 6/ page 42	1) Proposed backup solution must provide both Fixed Length and Variable Length Data Deduplication to allow users choose the dedupe option based on the backup workload. Solution should support Global Deduplication (Client side, Media Server and Target).	1) Proposed backup solution must provide both Fixed Length **OR** Variable Length Data Deduplication to allow users choose the dedupe option based on the backup workload. Solution should support Global Deduplication (Client side, Media Server and Target).
7	Clause 5.2.2 point 25/ page 46	Containerized platform for backup would involve deploying solution within a containerization framework such as Docker OR Kubernetes for portability, improved performance and improved resource utilization of PBBA. 1. Flexibility and Portability: Containerization should allow easy deployment of backup across different environment including on premises, cloud and Hybrid infrastructure. 2. Scalability: Containers should support scalability by allowing multiple instances of backup to be spun up or down as needed without effecting the overall performance of the solution. 3. Simplified deployment and management: containerization should simplify the deployment and management of backup by reducing the administrative burden and minimizing the risk of errors. 4. Improved resource utilization: Containers should optimize resource utilization by allowing multiple workloads to run on the same host reducing the need for dedicated Hardware and minimizing waste. 5. Enhanced security:	This clause is deleted.

		Containerization should provide an additional layer of security by isolating backup from the underlined host and other container, reducing the attack surface and minimize risk of breaches.	
8	Clause 5.2.4 point 4/ page 50	d) Email environments like exchange, **Gmail,** SharePoint and File share backup (SMB) etc.	d) Email environments like exchange, SharePoint and File share backup (SMB) etc.
9	5.2.4 point 5/ 52	Recovery verification should automatically boot the server from backup and verify the recoverability of VM image, Guest OS and Application Consistency and then publish automated reports to be used in backup/recovery audits.	Recovery verification should automatically **/automated through scripts**, boot the server from backup and verify the recoverability of VM image, Guest OS and Application Consistency and then publish reports to be used in backup/recovery audits.
10	Clause 5.2.4 point 5/ 52	Backup software should support instant file share recovery in NAS storage to allow users to access files fast after disaster.	Backup software should support **granular/**instant file share recovery in NAS storage to allow users to access files fast after disaster."
11	Clause 5.2.4 point 6/ page 52	The proposed backup software should support instant recoveries for any backup to VMware or Hyper-V virtual machine or other Virtual platform like OVM. Backup shall support complete native backup and granular restore capabilities for Oracle, MySQL, MS SQL, and Postgres support all cluster deployment of these Database, like 1. Oracle RAC and Grid 2. MySQL Multi-Instance 3. MS SQL Always On Availability Group 4. Streaming, Cluster and High availability Group. Proposed backup solution must support virtual backup without the need of any windows environment or backup server and should support instant recovery of VMWare virtual machines.	The proposed backup software should support instant recoveries for any backup to VMware or Hyper-V virtual machine or other Virtual platform like OVM. Backup shall support complete native backup and granular restore capabilities for Oracle, MySQL, MS SQL, and Postgres support all cluster deployment of these Database, like **1.** Oracle RAC and Grid-**natively or with scripts** **2.** MySQL Multi-Instance-**natively or with scripts** **3.** MS SQL Always On Availability Group **4.** Streaming, Cluster and High availability Group. Proposed backup solution must support

			virtual backup without the need of any windows environment or backup server and should support instant recovery of VMWare virtual machines.
12	Clause 5.2.4 point 8/ page 53	All encryption algorithms like AES, **blowfish**, Gost etc. shall be supported	All encryption algorithms like AES, Gost etc. shall be supported
13	Clause 5.2.4 point 17/ 57	Backup Software shall offer Extensive reporting capabilities to monitor the health of Backups. Shall support HTML, TEXT**,** PDF and CSV outputs. It shall support scheduled automated generation of the report on a daily basis. And also shall be integrated with SMS.	Backup Software shall offer Extensive reporting capabilities to monitor the health of Backups. Shall support HTML, TEXT**/ PDF** and CSV outputs. It shall support scheduled automated generation of the report on a daily basis. And also shall be integrated with SMS.
14	Clause 5.2.4 point 18/ 58	Backup solution must have inbuilt NSX transport support for VM ware replication and should have inbuilt WAN optimization feature for remote backup and replication.	Backup solution must have inbuilt NSX transport**/VADP** support for VM ware replication and should have inbuilt WAN optimization feature for remote backup and replication.

B. CLARIFICATIONS

Sl. no.	**Section no./ Clause no./ Page no.**	**Description/Clause**	**Clarification Sought**	**Clarification given**
1	5.2.4 point 3/ 50	Single license type should be supplied for backup of end points, virtual machines and Physical servers. OEM should also have a native solution for backup of Kubernetes/ Container workloads.	Please confirm if the backup software shall support unlimited number of container backup.	The bidder shall offer backup software license in terms of capacity or socket or instance. The details as below: Capacity: 110 TB Sockets: 80 Nos. Instances: 150 Nos., which includes 147 nos. of Virtual and 3 Nos. of physical servers

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